



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
44046.203.114.4

SERIAL NO.
10/751,335

APPLICANT
Kisko et al.

FILING
2 January 2004

GROUP
1775

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	Re. 34,035	18 Aug 1992	Dimigen et al.			
	2,780,553	05 Feb 1957	Pawlyk			
	2,808,351	31 Oct 1952	Colbert et al.			
	3,505,092	07 Apr 1970	Ryan et al.			
	3,528,906	15 Sep 1970	Cash, Jr. et al.			
	3,840,451	08 Oct 1974	Golyanov et al.			
	3,844,924	29 Oct 1974	Cunningham et al.			
	3,852,098	03 Dec 1974	Bloss et al.			
	3,925,182	09 Dec 1975	Carmichael et al.			
A	3,968,018	06 Jul 1976	Lane et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2,290,999	03 Dec 1998	Canada				
AJ	WO 98/23549	04 Jun 1998	PCT (French)				
	WO 97/11916	03 Apr 1997	PCT				
	WO 97/42357	13 Nov 1997	PCT				
AJ	WO 97/42351	13 Nov 1997	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VA	Veersamy, et al., "Optical and Electronic Properties of Amorphous Diamond." <u>Diamond and Related Materials</u> , Vol. 2 (1993), pp 782-787.
AJ	"Surface Hardening of Ceramic and Glass Materials," <u>IBM Technical Disclosure Bulletin</u> , Vol. 36, Issue 1 (January 1993), pg 225.

EXAMINER		DATE CONSIDERED
		5/6

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

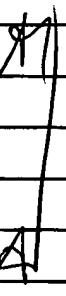


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A		3,970,037	20 Jul 1976	Sopko				
A		3,990,784	09 Nov 1976	Gelber				
		4,045,125	30 Aug 1977	Farges				
		4,052,520	04 Oct 1977	Chang et al.				
		4,060,660	29 Nov 1977	Carlson et al.				
		4,107,350	15 Aug 1978	Berg et al.				
		4,130,672	19 Dec 1978	Onoki et al.				
		4,166,018	28 Aug 1979	Chapin				
		4,194,022	18 Mar 1980	Gillary				
		4,212,663	15 Jul 1980	Aslami				
A		4,212,903	15 Jul 1980	Schnell et al.				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
A		WO 96/25534	22 Aug 1996	PCT				
		JP 64-14129	18 Jan 1989	JP			x	
		JP 3-122274	24 May 1991	JP				
		JP 3-187039 A	15 Aug 1991	JP				
A		JP 3-193872	23 Aug 1991	JP				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
gk		"Surface Hardening of Ceramic and Glass Materials," <u>IBM Technical Disclosure Bulletin</u> , Vol. 36, Issue 3 (March 1993), pp 291-292.						
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		4,214,014	22 Jul 1980	Hofer et al.			
		4,261,722	14 Apr 1981	Novak et al.			
		4,332,922	01 Jun 1982	Kossmehl et al.			
		4,351,861	28 Sep 1982	Henery			
		4,377,613	22 Mar 1983	Gordon			
		4,466,258	21 Aug 1984	Sando et al.			
		4,485,146	27 Nov 1984	Mizuhashi et al.			
		4,486,286	04 Dec 1984	Lewin et al.			
		4,503,125	05 Mar 1985	Nelson et al.			
		4,504,519	12 Mar 1985	Zelez			
		4,568,622	04 Feb 1986	Minami et al.			
		4,569,738	11 Feb 1986	Kieser et al.			
		4,571,350	18 Feb 1986	Parker et al.			
		4,661,409	28 Apr 1987	Kieser et al.			
		4,704,339	03 Nov 1987	Green et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
		JP 7-508491	21 Sep 1995	JP			
		JP 7-149545	13 Jun 1995	JP			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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<i>AJ</i>		4,713,311	15 Dec 1987	Senske et al.			
		4,717,622	05 Jan 1988	Kurokawa et al.			
		4,725,345	16 Feb 1988	Sakamoto, et al.			
		4,728,529	01 Mar 1988	Etzkorn , et al.			
		4,732,454	22 Mar 1988	Saito et al.			
		4,737,252	12 Apr 1988	Hoffman			
		4,769,291	06 Sep 1988	Belkind et al.			
		4,777,090	11 Oct 1988	Ovshinsky et al.			
		4,780,334	25 Oct 1988	Ackerman			
		4,816,127	28 Mar 1989	Eltouky			
		4,849,081	18 Jul 1989	Ross			
		4,851,095	25 Jul 1989	Scobey et al.			
<i>AJ</i>		4,859,493	22 Aug 1989	Lemelson			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
<i>JL</i>		JP 7-315889	05 Dec 1995	JP			
		JP 7-315874	05 Dec 1995	JP			
		JP 8-109043	30 Apr 1996	JP			
		JP 8-012378	16 Jan 1996	JP			
<i>AJ</i>		JP 8-11631	16 Jan 1996	JP			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	<i>5/10/04</i>				
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,882,827	28 Nov 1989	Kasumi et al.			
		4,894,133	16 Jan 1990	Hedcoth			
		4,915,977	10 Apr 1990	Okamoto et al.			
		4,919,778	24 Apr 1990	Dietrich et al.			
		4,961,958	09 Oct 1990	Desphandey et al.			
		4,981,568	01 Jan 1991	Taranko et al.			
		5,008,002	16 Apr 1991	Uno et al.			
		5,026,415	25 Jun 1991	Yamamoto et al.			
		5,032,421	16 Jul 1991	Sarma et al.			
		5,047,131	10 Sep 1991	Wolfe et al.			
		5,073,241	17 Dec 1991	Watanabe			
		5,073,450	17 Dec 1991	Nietering			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
		JP 9-202651	05 Aug 1997	JP			
		JP 10-36144	10 Feb 1998	JP			
		JP 10-048805 A	20 Feb 1998	JP			
		JP 11-095014	03 Dec 1998	JP			
		EP 0 328 257	16 Aug 1989	EP			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AT</i>		5,090,985	25 Feb 1992	Soubeyrand et al.			
		5,106,671	21 Apr 1992	Amberger et al.			
		5,139,633	18 Aug 1992	Kashida et al.			
		5,171,414	15 Dec 1992	Amberger et al.			
		5,190,807	02 Mar 1993	Kimock et al.			
		5,201,926	13 Apr 1993	Szczyrbowski et al.			
		5,209,996	11 May 1993	Kashida et al.			
		5,211,759	18 May 1993	Zimmerman et al.			
		5,245,468	14 Sep 1993	Demiryont et al.			
		5,284,539	08 Feb 1994	McKernan et al.			
		5,286,524	15 Feb 1994	Slutz et al.			
		5,302,449	12 Apr 1994	Eby et al.			
<i>AT</i>		5,318,830	07 Jun 1994	Takamatsu et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>AT</i>		EP 0 470 379 A	12 Feb 1992	EP			
<i>AT</i>		EP 0 515 847 B1	22 Feb 1995	EP			
<i>AT</i>		EP 0 689 962	03 Jan 1996	EP			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,346,600	13 Sep 1994	Nieh et al.			
		5,366,764	22 Nov 1994	Sunthankar			
		5,378,527	03 Jan 1995	Nakanishi , et al.			
		5,394,269	28 Feb 1995	Takamatsu et al.			
		5,401,543	28 Mar 1995	O'Neill et al.			
		5,415,756	16 May 1995	Wolfe et al.			
		5,424,130	13 Jun 1995	Nakanishi et al.			
		5,453,459	26 Sep 1995	Roberts			
		5,470,661	28 Nov 1995	Bailey et al.			
		5,476,713	19 Dec 1995	Abiko et al.			
		5,482,602	09 Jan 1996	Cooper et al.			
		5,498,475	12 Mar 1996	Takigawa et al.			
		5,507,930	16 Apr 1996	Yamashita et al.			
		5,520,996	28 May 1996	Balian et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
		EP 0 820 967 A1	28 Jan 1998	EP			
		EP 0 637 572 A1	08 Feb 1998	EP			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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AJ		5,529,631	25 Jun 1996	Yoshikawa et al.			
		5,558,751	24 Sep 1996	Mahler et al.			
		5,569,501	29 Oct 1996	Bailey et al.			
		5,594,585	14 Jan 1997	Komatsu			
		5,595,825	21 Jan 1997	Guiselin			
		5,597,622	28 Jan 1997	Zöller et al.			
		5,605,609	25 Feb 1997	Ando et al.			
		5,607,723	4 Mar 1997	Plano et al.			
		5,618,590	08 Apr 1997	Naruse et al.			
		5,624,760	29 Apr 1997	Collins et al.			
		5,633,208	27 May 1997	Ishikawa			
		5,643,423	01 Jul 1997	Kimock et al.			
AJ		5,643,432	01 Jul 1997	Qiu			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
AJ		DE 43 13 284	27 Oct 1994	DE			
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A		5,645,699	08 Jul 1997	Sieck			
		5,645,900	08 Jul 1997	Ong et al.			
		5,669,144	23 Sep 1997	Hahn et al.			
		5,674,625	07 Oct 1997	Takahashi et al.			
		5,679,431	21 Oct 1997	Chen et al.			
		5,683,561	04 Nov 1997	Hollars et al.			
		5,698,262	16 Dec 1997	Soubeyrand et al.			
		5,723,172	03 Mar 1998	Sherman			
		5,733,669	31 Mar 1998	Veyhl et al.			
		5,745,291	28 Apr 1998	Jenkinson			
		5,763,087	09 Jun 1998	Falabella			
		5,780,119	14 Jul 1998	Dearnaley et al.			
		5,789,040	04 Aug 1998	Martinu et al.			
		5,814,196	29 Sep 1998	Hollars et al.			
		5,820,994	13 Oct 1998	Gotoh et al.			
A		5,830,327	03 Nov 1998	Kolenkow			
FOREIGN PATENT DOCUMENTS							
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<i>[initial]</i>		5,830,332	03 Nov 1998	Babich et al.			
		5,846,613	08 Dec 1998	Neuville			
		5,854,708	29 Dec 1995	Komatsu et al.			
		5,888,593	30 Mar 1999	Petrnichl et al.			
		5,972,184	26 Oct 1999	Hollars et al.			
		6,074,981	13 Jun 2000	Tada et al.			
		6,156,171	05 Dec 2000	Hollars et al.			
		6,165,598	26 Dec 2000	Nelson			
		6,165,616	26 Dec 2000	Lemelson, et al.			
		6,210,750	03 Apr 2001	Cho et al.			
		6,261,693	17 Jul 2001	Veerasamy			
		6,299,981	09 Oct 2001	Azzopardi et al.			
		6,333,084 B1	25 Dec 2001	Woodard et al.			
		6,365,010 B1	02 Apr 2002	Hollars			
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